Amendments to the Claims

Please cancel claims 1 and 7. Please amend claims 2, 4, 8 and 9. The currently pending claims after amendment are listed below.

1. (Cancelled)

2. (Currently Amended) The method for database query optimization of ~~claim 1~~ claim 5, wherein said respective processor resource assignment of each partition comprises a respective number of virtual processors of each partition, said respective number being an integer.

3. (Original) The method for database query optimization of claim 2, wherein said step of defining a plurality of logical partitions comprises defining at least one set of processors which is shared by a set of said logical partitions, said set of said logical partitions containing at least two partitions, said respective processor resource assignment of each partition of said set of partitions including said set of processors.

4. (Currently Amended) The method for database query optimization of ~~claim 1~~ claim 6, further comprising the step of:
saving said first search strategy in a persistent object for later execution, said saving step including saving said first processor resource assignment in said object.

5. (Previously Presented) A method for database query optimization in a computer system having a plurality of central processors, comprising the steps of:
defining a plurality of logical partitions of said computer system, each logical partition having a respective processor resource assignment, wherein each task executing in said computer

Docket No.: ROC920010160US1
Serial No.: 10/001,667

5 system is assigned to a respective one of said logical partitions and wherein the definition of a

6 plurality of logical partitions may be dynamically altered;

7   defining a database query;

8   constructing a first search strategy for said database query, said first search strategy being

9 dependent on a first processor resource assignment at the time said step of constructing a first

10 search strategy is performed;

11   invoking said database query for execution in a first logical partition, said invoking step

12 being performed after said step of constructing a first search strategy;

13   comparing a second processor resource assignment to said first processor resource

14 assignment, said second processor resource assignment being associated with said first logical

15 partition at the time said invoking said database query for execution step is performed;

16   automatically constructing a second search strategy dependent on said second processor

17 resource assignment, said step of automatically constructing a second search strategy being

18 performed dependent on the results of said comparing step;

19   saving said first search strategy in a persistent object for later execution, said saving step

20 including saving said first processor resource assignment in said object;

21   invoking a previously saved search strategy for execution in a second logical partition, said

22 second logical partition being different from said first logical partition;

23   identifying a third processor resource assignment associated with said second logical

24 partition;

25   comparing said third processor resource assignment to said first processor resource

26 assignment; and

27   automatically constructing a third search strategy for execution of said database query

28 depending on the results of said comparing step.

Docket No.:   ROC920010160US1
Serial No.:   10/001,667

1   6.   (Previously Presented)   A method for database query optimization in a computer system

2   having a plurality of central processors, comprising the steps of:

3   defining a plurality of logical partitions of said computer system, each logical partition

4   having a respective processor resource assignment, wherein each task executing in said computer

5   system is assigned to a respective one of said logical partitions and wherein the definition of a

6   plurality of logical partitions may be dynamically altered;

7   defining a database query;

8   constructing a first search strategy for said database query, said first search strategy being

9   dependent on a first processor resource assignment at the time said step of constructing a first

10   search strategy is performed;

11   invoking said database query for execution in a first logical partition, said invoking step

12   being performed after said step of constructing a first search strategy;

13   comparing a second processor resource assignment to said first processor resource

14   assignment, said second processor resource assignment being associated with said first logical

15   partition at the time said invoking said database query for execution step is performed;

16   determining whether a user has specified that automatic construction of another search

17   strategy be disabled;

18   automatically constructing a second search strategy dependent on said second processor

19   resource assignment, said step of automatically constructing a second search strategy being

20   performed dependent on the results of said comparing step, wherein said step of automatically

21   constructing a second search strategy dependent on said second processor resource assignment is

22   performed only if said determining step determines that a user has not specified that automatic

23   construction of another search strategy be disabled.

7.   (Cancelled)

Docket No.:   ROC920010160US1
Serial No.:   10/001,667

1   8.   (Currently Amended) The program product for database query optimization of ~~claim 7~~

2   claim 11, wherein said respective processor resource assignment of each partition comprises a

3   respective number of virtual processors of each partition, said respective number being an integer.

1   9.   (Currently Amended) The program product for database query optimization of ~~claim 7~~

2   claim 11, wherein said instructions further cause said computer system to perform the step of:

3   saving said first search strategy in a persistent object for later execution, said saving step

4   including saving said first processor resource assignment in said object.

1   10.   (Previously Presented) A program product for database query optimization in a computer

2   system having a plurality of central processors and a dynamic logical partitioning mechanism,

3   said dynamic logical partitioning mechanism supporting a plurality of defined logical partitions of

4   said computer system, each logical partition having a respective processor resource assignment,

5   wherein each task executing in said computer system is assigned to a respective one of said

6   logical partitions and wherein the definition of a plurality of logical partitions may be dynamically

7   altered, said program product comprising a plurality of processor executable instructions recorded

8   on signal-bearing media, wherein said instructions, when executed by at least one central

9   processor of said computer system, cause said computer system to perform the steps of:

10   receiving a definition of a database query;

11   constructing a first search strategy for said database query, said first search strategy being

12   dependent on a first processor resource assignment at the time said step of constructing a first

13   search strategy is performed;

14   invoking said database query for execution in a first logical partition, said invoking step

15   being performed after said step of constructing a first search strategy;

16   comparing a second processor resource assignment to said first processor resource

17   assignment, said second processor resource assignment being associated with said first logical

18   partition at the time said invoking said database query for execution step is performed;

19   automatically constructing a second search strategy dependent on said second processor

20   resource assignment, said step of automatically constructing a second search strategy being

21   performed dependent on the results of said comparing step;

22   saving said first search strategy in a persistent object for later execution, said saving step

23   including saving said first processor resource assignment in said object;

24   invoking a previously saved search strategy for execution in a second logical partition, said

25   second logical partition being different from said first logical partition;

26   identifying a third processor resource assignment associated with said second logical

27   partition;

28   comparing said third processor resource assignment to said first processor resource

29   assignment; and

30   automatically constructing a third search strategy for execution of said database query

31   depending on the results of said comparing step.

Docket No.:   ROC920010160US1
Serial No.:   10/001,667

1   11.   (Previously Presented)   A program product for database query optimization in a computer

2   system having a plurality of central processors and a dynamic logical partitioning mechanism,

3   said dynamic logical partitioning mechanism supporting a plurality of defined logical partitions of

4   said computer system, each logical partition having a respective processor resource assignment,

5   wherein each task executing in said computer system is assigned to a respective one of said

6   logical partitions and wherein the definition of a plurality of logical partitions may be dynamically

7   altered, said program product comprising a plurality of processor executable instructions recorded

8   on signal-bearing media, wherein said instructions, when executed by at least one central

9   processor of said computer system, cause said computer system to perform the steps of:

10   receiving a definition of a database query;

11   constructing a first search strategy for said database query, said first search strategy being

12   dependent on a first processor resource assignment at the time said step of constructing a first

13   search strategy is performed;

14   invoking said database query for execution in a first logical partition, said invoking step

15   being performed after said step of constructing a first search strategy;

16   comparing a second processor resource assignment to said first processor resource

17   assignment, said second processor resource assignment being associated with said first logical

18   partition at the time said invoking said database query for execution step is performed;

19   determining whether a user has specified that automatic construction of another search

20   strategy be disabled;

21   automatically constructing a second search strategy dependent on said second processor

22   resource assignment, said step of automatically constructing a second search strategy being

23   performed dependent on the results of said comparing step, wherein said step of automatically

24   constructing a second search strategy dependent on said second processor resource assignment is

25   performed only if said determining step determines that a user has not specified that automatic

26   construction of another search strategy be disabled.

Docket No.:   ROC920010160US1
Serial No.:   10/001,667

27   12.   (Previously Presented) A computer system, comprising:

28   a plurality of central processing units;

29   a memory;

30   a logical partitioning mechanism supporting a plurality of defined logical partitions of said

31   computer system, each logical partition having a respective processor resource assignment,

32   wherein each task executing in said computer system is assigned to a respective one of said

33   logical partitions and wherein the definition of said logical partitions may be dynamically altered;

34   a database;

35   a database management system for managing said database, wherein said database

36   management system:

37   (a) performs query optimization of a database query for said database to produce a

38   first search strategy, said first search strategy being dependent on a first processor resource

39   assignment;

40   (b) responsive to invoking said first query search strategy for execution, compares

41   said first processor resource assignment with a second processor resource assignment

42   associated with a logical partition of execution at the time said first search strategy is

43   invoked for execution; and

44   (c) depending on the results of said comparison performed in (b), automatically

45   constructs a second search strategy dependent on said second processor resource

46   assignment;

47   wherein said database management system further determines whether a user has specified that (c)

48   be disabled, and disables (c) responsive to determining that a user has so specified.

1   13.   (Original) The computer system of claim 12, wherein said respective processor resource

2   assignment of each partition comprises a respective number of virtual processors of each partition,

3   said respective number being an integer.

Docket No.:   ROC920010160US1
Serial No.:   10/001,667

1   14.   (Original) The computer system of claim 13, wherein said logical partitioning mechanism

2   supports the definition of at least one set of processors which is shared by a set of said logical

3   partitions, said set of said logical partitions containing at least two partitions, said respective

4   processor resource assignment of each partition of said set of partitions including said set of

5   processors.

1   15.   (Original) The computer system of claim 12, wherein said database management system

2   saves said first search strategy in a persistent object for later execution, said persistent object

3   including said first processor resource assignment.

    16.   (Cancelled)